## What is claimed is:

- 1. A portable data storage device, comprising:
- 5 a universal serial bus (USB) connector;
  - a volatile memory for read and write and store data;
- a control chip connected between said USB connector

  and said volatile memory to serve as a transmission
  interface between said portable data storage and
  an external electronic apparatus;
- a charging battery for providing power needed by said volatile memory to store data; and
  - a battery charging circuit connected between said USB connector and said charging battery for charging said charging battery.

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- The portable data storage device as claimed in claim
   , wherein said USB connector comprises a USB version
   2.0.
- 25 3. The portable data storage device as claimed in claim 1, wherein said volatile memory comprises a dynamic

random access memory (DRAM).

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- 4. The portable data storage device as claimed in claim

  1, wherein said volatile memory comprises a

  synchronous dynamic random access memory (SDRAM).
- 5. The portable data storage device as claimed in claim
  1, wherein said control chip includes a USB serial
  interface engine, a micro processing unit, a
  firmware unit, a program RAM, and a RAM memory module.
- The portable data storage device as claimed in claim

   wherein said external electronic apparatus is selected from the group consisting of computer,
   digital camera, digital video camera, mobile phone, personal digital assistant, printer, and electronic calculator.
- The portable data storage device as claimed in claim
   1, wherein said charging battery is charged using power from said external electronic apparatus via said USB connector and said charging circuit.